

APPENDIX I
"E", "B", AND "W" SEWER ANALYTICAL RESULTS

KANKAKU PLANT
WATER
OPERATOR: DENNIE

MASTE CONTROL STATISTICAL REPORT FOR
(4/31/93 - 5/01 TU 6:01/93 - 5:00)

PAGE 2
RUN DATE 6/23/93
RUN TIME 8:41:12

SEWER 4 W SEWER

	GAL PER MI NOTE	PH	PPM PHENOL	PPM PHENOL	PPM TOTAL CARBON	
			LBS/HRS PH ENOL	TOTAL LBS PHENOL	TOTAL LBS PHENOL	
5/09/93 11:00	80.00	9.050	3.05	0.14	0.84	75.00
5/09/93 4:50	308.00	9.020	3.050	0.23	2.99	90.00
5/09/93 19:00	229.00	9.010	3.050	0.43	4.06	115.00
5/09/93 23:00	40.50	9.030	3.020	0.07	4.06	55.00
5/10/93 3:00	54.40	9.010	3.050	0.17	4.04	109.00
5/10/93 7:00	100.00	9.040	3.050	0.17	4.04	105.00
5/10/93 11:00	80.00	9.050	3.050	0.14	4.06	100.00
5/10/93 15:00	229.00	9.000	3.050	0.49	4.06	90.00
5/10/93 19:00	229.00	9.010	3.050	0.43	4.01C	85.00
5/10/93 23:00	47.00	9.070	3.050	0.08	4.042	115.00
5/11/93 3:00	47.00	9.050	3.020	0.08	4.074	115.00
5/11/93 7:00	47.00	9.050	4.020	0.09	0.18	135.00
5/11/93 11:00	47.00	9.020	3.040	0.09	0.54	145.00
5/11/93 15:00	59.10	9.020	4.000	0.05	0.74	129.00
5/11/93 19:00	229.00	9.020	3.050	0.48	2.34	95.00
5/11/93 23:00	80.00	9.050	3.020	0.14	4.047	92.00
5/12/93 3:00	80.00	9.020	3.050	0.14	3.048	78.00
5/12/93 7:00	80.00	9.010	3.050	0.15	3.05	120.00
5/12/93 11:00	71.00	9.020	3.090	0.13	0.62	75.00
5/12/93 15:00	229.00	9.000	3.050	0.52	2.042	72.00
5/12/93 19:00	229.00	9.010	3.020	0.40	4.032	75.00
5/12/93 23:00	74.00	9.020	3.050	0.12	4.05	55.00
5/13/93 3:00	71.00	9.020	3.020	0.12	4.098	75.00
5/13/93 7:00	71.00	9.020	3.050	0.10	0.25	125.00
5/13/93 11:00	82.00	9.020	3.050	0.12	0.08	100.00
5/13/93 15:00	136.00	9.020	3.050	0.42	1.048	69.00
5/13/93 19:00	112.00	9.040	3.050	0.15	2.012	75.00
5/13/93 23:00	90.00	9.020	3.050	0.13	2.064	35.00
5/14/93 3:00	80.00	9.040	3.050	0.12	3.012	42.00
5/14/93 7:00	20.00	9.050	3.050	0.03	0.05	6.00
5/14/93 11:00	71.00	9.020	3.050	0.10	0.40	50.00
5/14/93 15:00	112.00	9.070	3.050	0.19	1.004	50.00
5/14/93 19:00	90.00	9.020	3.050	0.13	1.056	45.00
5/14/93 23:00	112.00	9.040	3.050	0.19	2.032	40.00
5/15/93 3:00	112.00	9.040	3.050	0.19	3.028	50.00
5/15/93 7:00	112.00	9.050	3.050	0.21	0.44	62.00
5/15/93 11:00	100.00	9.020	3.050	0.17	1.010	50.00
5/15/93 15:00	124.00	9.020	3.050	0.17	1.078	44.00
5/15/93 19:00	100.00	9.050	3.050	0.19	3.030	40.00
5/15/93 23:00	125.00	9.040	3.050	0.23	4.022	50.00
5/16/93 3:00	112.00	9.040	3.050	0.19	1.010	50.00
5/16/93 7:00	112.00	9.050	3.050	0.21	0.44	58.00
5/16/93 11:00	124.00	9.020	3.050	0.17	1.038	58.00
5/16/93 15:00	124.00	9.020	3.050	0.17	2.022	30.00
5/16/93 19:00	125.00	9.050	3.050	0.23	4.026	42.00
5/16/93 23:00	112.00	9.040	3.050	0.19	2.032	50.00
5/17/93 3:00	112.00	9.040	3.050	0.19	4.025	44.00
5/17/93 7:00	112.00	9.050	3.050	0.23	0.46	75.00
5/17/93 11:00	112.00	9.050	3.050	0.16	1.016	60.00

FRANKFURT PLANT

Digitized by srujanika@gmail.com

PAGE 3 RUN TIME 8:41:12
RUN DATE 6/23/93

WA3TE GUNTRKUL STATLSI LCL REPURT FOH
1 4/31/93 5:01 TU 6/01/93 5:00

PPM HENDL PH LRS/HKS PH TOTAL LDS PPM HENDL ENOL PHENOL CARBON

LBS/HRS PH TOTAL LBS PPM HENDL ENOL PPM HENDL ENOL CARBON

PAGE 3 RUN TIME 8:41:12
RUN DATE 6/23/93

HANKOKU PLANT
WLD71 OPERATOR: BERNIE

WASTEWATER STATISTICAL REPORT FUR
(4/31/93 5:01 TU 6/01/93 5:01)

PAGE 4
RUN DATE 6/23/93
RUN TIME 8:41:12

SEWER 4 W SEWER

DATE	TIME	NOTE	BAL PER MI	PH	PPM PHENOL	PPM PHENYL	PPM TOTAL CARBON
5/26/93	3:00		71.0C	9.0C	•0.0	•0.0	41.00
5/26/93	7:00		308.0C	9.0C	•0.0	•0.0	37.00
5/26/93	11:00		229.0C	9.0C	•0.0	•0.0	26.00
5/26/93	15:00		71.0C	10.0C	•0.0	•0.0	72.00
5/26/93	19:00		89.0C	8.6C	•0.0	•0.0	48.00
5/26/93	23:00		80.0C	8.9C	•0.0	•0.0	47.00
5/27/93	3:00		80.0C	9.4C	•0.0	•0.0	47.00
5/27/93	7:00		229.0C	9.0C	•0.0	•0.0	69.00
5/27/93	11:00		212.0C	9.0C	•0.0	•0.0	21.00
5/27/93	15:00		156.0C	8.6C	•0.0	•0.0	47.00
5/27/93	19:00		112.0C	8.6C	•0.0	•0.0	60.00
5/27/93	23:00		112.0C	9.0C	•0.0	•0.0	60.00
5/28/93	3:00		112.0C	8.6C	•0.0	•0.0	52.00
5/28/93	7:00		229.0C	9.4C	•0.0	•0.0	47.00
5/28/93	11:00		229.0C	9.0C	•0.0	•0.0	65.00
5/28/93	15:00		112.0C	9.0C	•0.0	•0.0	47.00
5/28/93	19:00		112.0C	9.0C	•0.0	•0.0	47.00
5/28/93	23:00		112.0C	8.6C	•0.0	•0.0	56.00
5/29/93	3:00		71.0C	9.0C	•0.0	•0.0	65.00
5/29/93	7:00		229.0C	9.0C	•0.0	•0.0	47.00
5/29/93	11:00		229.0C	9.0C	•0.0	•0.0	47.00
5/29/93	15:00		229.0C	9.0C	•0.0	•0.0	68.00
5/29/93	19:00		229.0C	9.0C	•0.0	•0.0	69.00
5/29/93	23:00		229.0C	9.0C	•0.0	•0.0	67.00
5/30/93	3:00		86.0C	9.4C	•0.0	•0.0	34.00
5/30/93	7:00		86.0C	9.4C	•0.0	•0.0	47.00
5/30/93	11:00		229.0C	10.0C	•0.0	•0.0	69.00
5/30/93	15:00		164.0C	9.6C	•0.0	•0.0	50.00
5/30/93	19:00		112.0C	8.6C	•0.0	•0.0	50.00
5/30/93	23:00		112.0C	8.6C	•0.0	•0.0	50.00
5/31/93	3:00		86.0C	9.0C	•0.0	•0.0	58.00
5/31/93	7:00		229.0C	9.0C	•0.0	•0.0	69.00
5/31/93	11:00		164.0C	9.0C	•0.0	•0.0	63.00
5/31/93	15:00		112.0C	9.0C	•0.0	•0.0	60.00
5/31/93	19:00		112.0C	9.0C	•0.0	•0.0	62.00
5/31/93	23:00		136.0C	9.0C	•0.0	•0.0	39.00
6/01/93	3:00		136.0C	9.0C	•0.0	•0.0	27.00
# IN		20.0C	8.0C	•0.0	•0.0	17.00	
# NAA		45.0C	10.0C	20.0C	89.08	145.0C	
# OF SAMPLES		181.0C	181.0C	181.0C	181.0C	180.0C	
AVERAGE		111.4C	9.0C	20.0C	8.0C	13.0C	
SIGMA		56.37	27.25	1.02	0.47	54.90	
$\Sigma \Delta$ SIGMA		130.73	52.09	3.63	4.93	23.47	
$\Sigma \Delta$ - 2 SIGMA		240.83	50.06	7.00	13.03	43.93	

FRANKFORD PLANT
MUL-71
OPERATOR: BERNIE

WASTE LIQUID STATISTICAL REPORT FUK
(4/31/93 5:01 TU 04/23 5:00)

PAGE 5
RUN DATE 4/23/93
RUN TIME 8:41:12

SENDER 4 W SENDER

	GAL PER MILITRE	PH	PPM PHENOL	LBS/HRS PHENOL	TOTAL LBS PHENOL	PPM TOTAL CARBON
Avg + 2 SIGMA	2400.3	6.012	3.23		106.9	
# WITHIN 2 SIGMA	1760.0	6.000	1.780.0	1.780.0	17.400	
# 2 AVE + 2SIG	2516	6.000	2.000	2.000	2.000	

GAL PER MILITRE

PH

PPM PHENOL

LBS/HRS PHENOL

TOTAL LBS PHENOL

PPM TOTAL CARBON

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
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RUN TIME
RUN DATE
PAGE

RUN TIME 8:42:00

RUN DATE 6/23/96
PAGE 1

PPM PHENOL LRS/Hr Hr TOTAL LRS NOL PHENOL PPM TOTAL CARBON

W32LE COUNTROLD STATESTLICHL REPUBLIK FÜR
11 4/32/93 5:01 TU 5/01/93 5:00

NOTE
MIL PER AL

SEWER / E SEMPER
DEPARTMENT: BERLIN
MATERIAL: FRANKFURTER ZANT

KÄNKURJ PLANT
ML 21
UPÉKATUR: BERNIE

WASTE CONTROL STATISTICAL REPORT FOR
14/31/73 5:01 TU 6/31/93 5:01

PAGE 2
RUN DATE 8/23/93
RUN TIME 8:42:00

FRANKFORD PLANT
WL071

OPERATOR: BERNIE

SEWER 7 E SEWER

WASTE CONTROL STATISTICAL REPORT FOR
(4/31/93 5:01 TU 6/01/93 5:00)

PAGE 3
RUN DATE 6/23/93
RUN TIME 8:42:00

	GAL PER MI NUTE	PH	PPM PHENOL	LBS/HR PHE NUL	TOTAL LBS PHENOL	PPM TOTAL CARBON
# OF SAMPLES	92.00	92.00	92.00	92.00	92.00	92.00
AVERAGE	5.36		534.75	1.11		1115.65
SIGMA	3.90		218.07	.44		483.92
2 X SIGMA	7.00		430.14	.87		967.83
AVG - 2SIGMA	2.44		98.01	.24		147.82
AVG + 2SIGMA	13.16		970.89	1.98		2083.48
# WITHIN 2 SIG	84.00		83.00		80.00	
# > AVG + 2SIG	8.00		0.00	1.00		1.00

FRANKFORD PLANT

MC371

OPERATOR: BERNIE

WASTE CONTROL STATISTICAL REPORT FOR
(4/31/93 5:01 TU 6/01/93 5:00)

PAGE 1
RUN DATE 6/23/93
RUN TIME 8:42:52

SEWER & B SEWER

		GAL PER MI	PH	PPM PHENOL	LBS/HR PHE NUL	TOTAL LBS PHENOL	PPM TOTAL CARBON
		NUTE					
[5/01/93	9:00	12.00	7.00	12.50	.07	.28	100.00
5/02/93	9:00	12.00	6.70	28.00	.16	.64	125.00
5/03/93	9:00	12.00	6.50	15.17	.09	.36	135.00
5/04/93	9:00	12.00	6.00	>0.0	.03	.12	65.00
5/05/93	9:00	12.00	6.90	11.00	.06	.24	70.00
5/06/93	9:00	12.00	7.20	5.00	.03	.12	65.00
5/07/93	9:00	12.00	7.10	17.00	.10	.40	135.00
[5/08/93	9:00	12.00	7.10	21.00	.12	.48	145.00
5/09/93	9:00	12.00	7.10	17.00	.10	.40	100.00
5/10/93	9:00	12.00	6.90	14.00	.08	.32	115.00
5/11/93	9:00	12.00	7.20	14.00	.08	.32	110.00
5/12/93	9:00	12.00	7.00	24.00	.14	.56	125.00
5/13/93	9:00	12.00	6.70	20.00	.12	.48	125.00
[5/14/93	9:00	12.00	7.00	14.00	.08	.32	120.00
5/15/93	9:00	12.00	6.30	15.00	.09	.36	65.00
5/16/93	9:00	12.00	7.20	20.00	.12	.48	105.00
5/17/93	9:00	12.00	7.00	11.00	.06	.24	91.00
5/18/93	9:00	12.00	6.90	11.00	.06	.24	90.00
5/19/93	9:00	12.00	7.90	7.90	.04	.16	60.00
5/20/93	9:00	12.00	6.50	9.50	.05	.20	90.00
5/21/93	9:00	12.00	6.70	10.20	.06	.24	90.00
[5/22/93	9:00	12.00	7.20	12.00	.07	.28	90.00
5/23/93	9:00	12.00	7.10	8.00	.04	.16	110.00
5/24/93	9:00	12.00	7.10	8.00	.04	.16	110.00
5/25/93	9:00	12.00	6.30	5.00	.03	.12	56.00
5/26/93	9:00	12.00	6.70	6.00	.03	.12	66.00
5/27/93	9:00	12.00	6.80	10.00	.06	.24	76.00
5/28/93	9:00	12.00	6.60	4.00	.02	.08	47.00
[5/29/93	9:00	12.00	6.90	12.00	.07	.28	56.00
5/31/93	9:00	12.00	6.60	12.00	.07	.28	66.00
MIN		12.00	6.30	4.00	.02	.08	47.00
MAX		12.00	8.00	28.00	.16	.64	145.00
# OF SAMPLES		30.00	30.00	30.00	30.00	30.00	30.00
AVERAGE		12.00		12.64	.07		93.43
SIGMA		.00		5.64	.04		27.69
Z X SIGMA		.00		11.68	.07		55.37
AVG - ZSIGMA		12.00		.96	.00		38.06
AVG + ZSIGMA		12.00		24.32	.14		148.80
# WITHIN Z SIG		30.00		29.00	29.00		30.00
# > AVG + ZSIG		.00		1.00	1.00		.00